

Dividing Fractions

6.NS.A.1

Name _____ Date _____

Show your work in the space provided. Divide by multiplying by the reciprocal, and write every answer in simplest form.

1. What is the reciprocal of $\frac{5}{8}$?

2. Compute $\frac{1}{2} \div \frac{1}{4}$.

3. Compute $\frac{3}{4} \div \frac{1}{2}$.

4. Compute $\frac{2}{3} \div \frac{4}{9}$.

5. Compute $\frac{5}{6} \div \frac{2}{3}$.

6. Divide a whole number by a fraction: $6 \div \frac{3}{4}$.

7. Divide a fraction by a whole number: $\frac{4}{5} \div 2$.

8. Compute $\frac{7}{8} \div \frac{1}{4}$.

9. Compute $1\frac{1}{2} \div \frac{3}{4}$. Write each mixed number as an improper fraction first.

10. Compute $2\frac{1}{4} \div 1\frac{1}{2}$.

11. Which expression is equal to $\frac{2}{5} \div \frac{3}{7}$?

A) $\frac{2}{5} \times \frac{3}{7}$
C) $\frac{2}{5} \times \frac{7}{3}$

B) $\frac{5}{2} \times \frac{3}{7}$
D) $\frac{5}{2} \times \frac{7}{3}$

12. A ribbon is $\frac{3}{4}$ of a meter long. It is cut into pieces that are each $\frac{1}{8}$ of a meter long. How many pieces are there?

13. A recipe calls for $\frac{2}{3}$ of a cup of flour per batch. How many full batches can you make with 4 cups of flour?

14. A water jug holds $\frac{9}{10}$ of a liter. You pour it equally into glasses that each hold $\frac{3}{20}$ of a liter. How many glasses can you fill?